APPLICANTS:

Sharon BARKAI et al.

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AMENDMENTS TO THE CLAIMS

Kindly amend the claims as follows:

1 - 12 (cancelled)

13. (currently amended) A method for topology discovery in an ATM network, the method comprising:

configuring a plurality of <u>unmatched but</u> active ports of a plurality of ATM devices with a VPI/VCI known not to exist in said network;

finding a path in a topology graph of said network from a transmitting source within said network to a selected one of said ATM devices having a matched port and a configured unmatched port;

establishing a <u>permanent virtual circuit (PVC)</u> between [[a]] <u>said</u> transmission source <u>within said network</u> and <u>an unmatched transmitting port</u>, <u>being said configured unmatched port of said selected ATM device</u>, <u>via said matched port a selected one of said ATM-devices</u> along a <u>known said</u> path, <u>wherein said selected ATM device has at least one target active port for which a link to any other of said ports is not known to exist in said network;</u>

transmitting a cell from said transmission source to said selected ATM device along said path and via said target port via said PVC;

detecting the arrival of said cell at any other of said <u>configured unmatched</u> ports; and

where said cell arrives at is received by only one other of said configured unmatched ports, maintaining creating in [[a]] said topology graph a link between said target unmatched transmitting port and said one other of said ports receiving port.

14. (cancelled)